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# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

06/01/2009

EXAMINER
KISH, JAMES M

Patrick W. Rasche Armstrong Teasdale LLP Suite 2600 One Metropolitan Square St. Louis, MO 63102

ART UNIT PAPER NUMBER

3737

DATE MAILED: 06/01/2009

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/613,580	07/02/2003	David Henry Gurr	129159	5508	

TITLE OF INVENTION: SYSTEMS AND METHODS FOR PHASE ENCODE PLACEMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/01/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further indicated unless correct maintenance fee notifica	ed below or directed otl	ng the Patent, advance onerwise in Block 1, by (	a) specifying a new co	of main	dence address;	and/or	(b) indicating a sepa	corresp rate "F	Sondence address as EE ADDRESS" for
CURRENT CORRESPOND		Note: A certificate of mailing can only be used for domestic mailings of Fee(s) Transmittal. This certificate cannot be used for any other accompany papers. Each additional paper, such as an assignment or formal drawing, n have its own certificate of mailing or transmission.							
Patrick W. Ras Armstrong Teas Suite 2600	dale LLP		States Pe addresse	certify that th ostal Service wed to the Mail	is Fee(s ith suff Stop	of Mailing or Trans 3) Transmittal is being ficient postage for first ISSUE FEE address 1) 273-2885, on the d	g deposi st class above,	ited with the United mail in an envelope or being facsimile	
One Metropolita St. Louis, MO 6									(Depositor's name)
ot. Louis, WO	3102								(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CON	FIRMATION NO.
10/613,580 TITLE OF INVENTION	07/02/2003 V: SYSTEMS AND MET	HODS FOR PHASE EN	David Henry Gurr CODE PLACEMENT	r			129159		5508
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nonprovisional	NO	\$1510	\$300		\$0	\$1810			09/01/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	SS					
KISH, JA	AMES M	3737	600-410000						
1. Change of correspond CFR 1.363).  Change of correspond CFR 1.363).  Change of correspond CFR 1.363).  "Fee Address" ind PTO/SB/47; Rev 03-(Number is required.	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.								
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comj GNEE	A TO BE PRINTED ON ified below, no assignee pletion of this form is NO	data will appear on the Ta substitute for filing (B) RESIDENCE: (C	ne patent g an assig	gnment. I STATE OR C	COUNT	RY)		
Please check the appropr	riate assignee category or	categories (will not be p	rinted on the patent):	<b>∟</b> Ind	lividual 🖵 Co	orporati	on or other private gro	oup enti	ty 🖵 Government
4a. The following fee(s)  Issue Fee Publication Fee (N Advance Order -	<ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>								
5. Change in Entity Sta	itus (from status indicate ns SMALL ENTITY stati		☐ b. Applicant is no	longer o	elaiming SMAI	I ENT	TITV status See 37 C	ER 1 25	I(a)(2)
NOTE: The Issue Fee an	nd Publication Fee (if req	uired) will not be accepte	ed from anyone other th	_	-				
interest as snown by the	records of the United Sta	ues Patent and Trademark	k Office.						
Authorized Signature					Date				
Typed or printed name			Registration N	Го					
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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75	590 06/01/2009	EXAMINER			
Patrick W. Rasche			KISH, JAMES M		
Armstrong Teasdale LLP			ART UNIT	PAPER NUMBER	
Suite 2600 One Metropolitan St. Louis, MO 631			3737 DATE MAILED: 06/01/200	9	

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 705 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 705 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
Netice of Allematility	10/613,580	GURR ET AL.	
Notice of Allowability	Examiner	Art Unit	
	JAMES KISH	3737	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED or other appropriate comn IGHTS. This application is	in this application. If not included nunication will be mailed in due cours	
1. This communication is responsive to After Final amendment	nts and arguments dated 4	<u>/20/09</u> .	
2. The allowed claim(s) is/are <u>1,2,4-20,25,26 and 28-31</u> .			
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> </ul>	e been received.		
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •		
3. Copies of the certified copies of the priority do	cuments have been receiv	ed in this national stage application fr	om the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must be subm including changes required by the Notice of Draftspers 1) hereto or 2 here to Paper No./Mail Date	MENT of this application.  itted. Note the attached Exes reason(s) why the oath out the submitted.  son's Patent Drawing Revie	(AMINER'S AMENDMENT or NOTIC or declaration is deficient.	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.			) of
each sheet. Replacement sheet(s) should be labeled as such in the first of the sheet of the shee	sit of BIOLOGICAL MA	TERIAL must be submitted. Note the	he
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.  ☐ Interview : Paper No 7.  ☐ Examiner'	nformal Patent Application Summary (PTO-413), ./Mail Date s Amendment/Comment s Statement of Reasons for Allowanc	e

### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

The prior art fails to teach polar phase encoding by frequency encoding in a Z-direction of a k-space, wherein the phase encoding comprises phase encoding in which each datum is represented as  $m(a\cos(2\pi d/n)kx) + b\sin(2\pi d/n)ky + ickz$  and modifying variables within this data as defined by the nested loop.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES KISH whose telephone number is (571)272-5554. The examiner can normally be reached on 8:30 - 5:00 ~ Mon. - Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

Art Unit: 3737

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/BRIAN CASLER/ Supervisory Patent Examiner, Art Unit 3737

**JMK**